MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

DATE OF PREPLY 30, 1980

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

Section I

MANUFACTURER'S NAME BOSTIK WEST, DIV. OF USM CORPORATION, AN EMHART UNIT

street address 20846 So. Normandie Ave. city state and zipcode Torrance, Ca.

EMERGENCY TELEPHONE NO.

320-6800 (213)

PRODUCT CLASS

TRADENAME

EPOXY

BOSTIK

MANUFACTURERS CODE IDENTIFICATION 443-3-63

Catalyst:

X - 304Mix Ratio:

3 parts 443-3-63 (Base)

to 1 part X-304 by volume

Section II - HAZARDOUS INGREDIENTS

INGREDIENT 443-3-63 (BASE ONLY)	PERCENT (Wt.)	T PPM	LV mg/M³	LEL	VAPOR PRESSURE MM Hg.
KETONE SOLVENTS	25-30	25-200		1.2	70.0
AROMATIC SOLVENTS	10-15	200		1.0	22.0
GLYCOL ETHER SOLVENTS	< 5.0	505		1.1	1.0
ALCOHOL SOLVENTS	< 1.0	100		1.7	4.0
CHROMIUM COMPOUNDS	25-30	., -	0.5		
					i i i i i i i i i i i i i i i i i i i

Section III — PHYSICAL DATA

BOILING RANGE

176-340 Deg. F.

VAPOR DENSITY

XX HEAVIER

60%

LIGHTER, THAN AIR

EVAPORATION RATE

FASTER XX SLOWER, THAN ETHER

PERCENT VOLATILE

WEIGHT PER

10.5 lbs.

Section IV — FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY

Red label, Flammable

23 Deg. F. Tag Closed

1.0

EXTINGUISHING MEDIA

Exclude air - Use foam, CO2, steam, water-fog,

dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with

upper and lower explosion limits

between

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, to cool fire exposed surfaces and

personnel.

Section V — HEALTH HAZARD DATA
THRESHOLDLIMIT VALUE See Section II EFFECTS OF OVEREXPOSURE Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat, and eyes.
EMERGENCY AND FIRST AID PROCEDURES Skin Exposure: Wash affected area with soap and water. Eye Exposure: Flush with water for at least 15 minutes, consult physician. Ingestion: Consult physician immediately. Inhalation: Remove victim to fresh air, consult physician.
Section VI — REACTIVITY DATA
STABILITY UNSTABLE XX STABLE CONDITIONS TO AVOID Storage at high temperatures incompatability (Majorials to avoid) Strong oxidizing agents. Sparks and open flame hazardous decomposition products CO, CO ₂ , Aldehydes and other organics, lead fumes. oxides of nitrogen.
HAZARDOUS POLYMERIZATION MAY OCCUR XX WILL NOT OCCUR CONDITIONS TO AVOID
Section VII — SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS DELEASED ON THE
from area. Prevent liquid from entering sewers, water courses, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water. Consult diameted approach area.
Section VIII Section VIII SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION Use approved respiratory protection such as an air-supplied mask if used in non ventilated area. Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.
ventulation Face velosity > 60 fpm in-confined area.
PROTECTIVE GLOVES Chemically resistant gloves EYE PROTECTION Chemical splash goggles or face shield OTHER PROTECTIVE EQUIPMENT Eye bath & safety shower
Section IX — SPECIAL PRECAUTIONS
Do not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied these containers retain product residues (vapor, liquid, etc.).
All handling equipment should be electrically grounded. Treat as a very flammable liquid.
Kenneth J. Silberberg Technical Administrative Mgr.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

DATE OF PREPLY 10 1980 (Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

Section I

BOSTIK WEST, DIV. OF USM CORPORATION, AN EMHART UNIT

STREET ADDRESS 20846 So. Normandie Ave. CITY, STATE, AND ZIP CODE Torrance, Ca. 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS AMINE

MANUFACTURERS CODE IDENTIFICATION

Catalyst for 443-3-Series; 3 parts bas

TRADENAME BOSTIK

to 1 part X-304. 453-1000 Series, 4 parts bas to 1 part X-304. 463-3-Series, 4 parts base t

Section II — HAZARDOUS INGREDIENTS 1 part X-304.									
INGREDIENT X-304 EPOXY CATALYST **	PERCENT (Wt.)	PPM	'LV mg/M³	LEL	VAPOR PRESSURE MM Hg.				
ALCOHOL SOLVENTS	20-25	100	· · · ·	1.7	4.0				
GLYCOL ETHER SOLVENTS	10-15	50		1.1.	1.0				
KETONE SOLVENTS	45-50	200	·	1.56	70.0				
AROMATIC SOLVENTS	5.0	200		1.2	22.0				
*X-304 may also contain a minor amount of diethylene triamine (DETA) ACGIH TWA		1.0		6-148 11-100 11-100	e Se ev				

Section III — PHYSICAL DATA

BOILING RANGE 176-340 Deg. F.

VAPOR DENSITY

XX HEAVIER

LIGHTER, THAN AIR

EVAPORATION RATE

FASTER X SLOWER, THAN ETHER

PERCENT VOLATILE BY VOLUME

WEIGHT PER 75% GALLON

7.1 lbs.

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY

Red label, Flammable

(Min.) FLASH POINT 23 Deg. F., Tag_Closed LEL

Cup

Exclude air - Use foam, CO₂, steam, water-fog, dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray to cool fire exposed surfaces and to protect personnel.

Section V — HEALTH HAZARD DATA THRESHOLD LIMIT VALUE See Section II EFFECTS OF OVEREXPOSURE Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes. Irritating to skin and strong skin sensitizer. Skin Exposure: Wash affected area with soap and water. Eye Exposure: Flush with water for at least 15 minutes, consult physician. Ingestion: Consult physician immediately. Inhalation: Remove victim to fresh air, consult physician. Section VI — REACTIVITY DATA UNSTABLE X STABLE conditions to Avoid Storage at high temperatures INCOMPATABILITY (Materials to avoid) Strong oxidizing agents, in-Sparks and open flame HAZARDOUS DECOMPOSITION PRODUCTS organic acids. CO, CO₂, Oxides of Nitrogen. HAZARDOUS POLYMERIZATION MAY OCCUR XX WILL NOT OCCUR CONDITIONS TO AVOID Section VII - SPILL OR ŁEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, and low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without wastedisposal Method hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash with detergent and water. Consult disposal expert and ensure con-Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION Face velosity > 60 fpm in confined area.

PROTECTIVE GLOVES Chemically resistant gloves

EYE PROTECTION Chemical splash goggles or face shield

other protective equipment Eye Bath and safety shower.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Material is sensitive to moisture and should be kept in tightly closed containers. Do not handle or store near flame, heat or strong oxidants. Adequate ventila
OTHER PRECAUTIONS tion is required. Containers of this product may be hazardous when emptied - - these containers retain product residues (vapor, liquid, etc.)

All handling equipment should be electrically grounded. Treat as a very flammable liquid.

Kenneth J. Silberberg
Technical Administrative Manager